

TECHNICAL DATA SHEET

Product Name: MARMOFLEX-ECO

Registered Office:

MARMO SOLUTIONS PVT. LTD.

(AN ISO 9001:2015 CERTIFIED COMPANY)

MUMBAI: 47A, Ground And First Floor, Parmar
Compound, Highway Road, Vile Parle East,
Mumbai – 400099

DELHI : WHS, 1/18, 2nd Floor Kirti Nagar, Near
Richi Rich, New Delhi - 110015

Customer No: +91 11 40586081

Web.: www.marmosolutions.com

For any query/feedback

E-Mail: info@marmosolutions.com

CIN : U74140DL2013PTC252178

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Office hours: Monday to Saturday (10AM-6PM)



1. Product Description:

Marmoflex-ECO is a high-performance, cement-based, polymer-modified adhesive designed for installing small to medium-sized ceramic, porcelain, and natural stone tiles. Its polymer- modified formulation delivers improved adhesion, flexibility, and better workability, making it suitable for both interior and exterior applications.

Marmoflex-ECO complies with C1T classification under EN 12004 standards, TYPE 2T IS:15477:2019 and ANSI A118.4 standards assuring consistent quality and reliability. It is ideal for application on a variety of substrates, including concrete, screeds and plastered surfaces.

Marketed By/ Exporter:

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Manufactured by:

ANAV INDUSTRIES
Address: Khewat No. 1358/1151,
Khatoni No. 1461, Main NH-9, Near Toll Plaza, Village
Rohad, Dis. Jhajjar, Haryana-124501

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2. Product Features:

- **EN: (C1T), IS: Type-2T and ANSI A118.4 Classification:** As per **EN 12004** and **IS 15477:2019**, suitable for standard tile and stone fixing applications.
- **Cement- Based Polymer-modified Adhesive:** Improved adhesion and strength that ensure strong bonding and enhanced flexibility.
- **Smooth Consistency:** Allowing easy trowelling and consistent spreadability.
- **Long Open Time:** Allows good workability for tile placement.
- **Eco- Friendly:** Low in VOC, suitable for environmentally sensitive projects.
- **Uniform adhesive Coverage:** Designed for controlled thin- layer application, ideally upto 12mm trowel thickness.
- **Tile & Marble Installation:** Suitable for ceramic, porcelain, vitrified tiles and natural stones.
- **Cementitious Surface for Application-** Ideal for cementitious substrates such as concrete, screeds, and cement plaster surfaces.
- **Ideal for use in Wet Areas:** Perfect for use in areas prone to moisture, such as bathrooms and kitchens.
- **High durability:** Offers extended service life under heavy foot traffic, mechanical stress, and environmental exposure.
- **Slip Resistance:** Suitable for vertical applications with minimal tile slip, ensuring precision in tiling projects.

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3. Product Specifications:

- **Classification:** C1T (EN 12004) , 2T (IS:15477:2019) and ANSI A118.4
- **Component Type:** Cement-based, polymer-modified
- **Colour:** Grey or White
- **Packaging:** 20 Kg & 50 Kg Bag
- **Mixing Ratio:** Approx. 4.5–5 litres of ≤ 200 Tds water per 20 Kg bag
- **Open Time:** ≥ 30 minutes
- **Pot Life:** 4-5 hours at 25°C
- **Adjustability Time:** Up to 30 minutes
- **Application Temperature:** +5°C to +35°C
- **Slip Resistance:** ≤ 0.5 mm
- **Application Thickness:** Upto 12 mm
- **Full Cure:** After 7 days
- **Tensile Adhesion**
 - a) **Dry Condition:** ≥ 1.0 N/mm²
 - b) **Wet Condition:** ≥ 1.0 N/mm²
- **Shear Adhesion**
 - a) **Dry Condition:** ≥ 1.25 N/mm²
 - b) **Heat Ageing:** ≥ 1.0 N/mm²
 - c) **Wet Condition:** ≥ 1.0 N/mm²
- **Coverage:** 1.3 Kg/m² per mm thickness (approx. 4-6 kg/m² depending on tile size and substrate)
- **Shelf Life:** 12 months in original, unopened packaging (Under 25°C at dry conditions).

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4. Application Guidelines:

1. Surface Preparation:

- Ensure the substrate is structurally sound, clean, and free from dust, grease, or loose materials.
- Pre-dampen absorbent surfaces before applying Marmoflex-ECO, but avoid leaving standing water.
- Uneven surfaces must be levelled and repaired before stone tile installation.

2. Mixing Instructions:

- Add approximately 4.5-5 litres of clean ≤ 200 Tds water to a 20 KG bag of Marmoflex-ECO adhesive.
- Mix with a mechanical mixer until a smooth, homogenous consistency is achieved.
- Allow the mixture to rest for 5 minutes and then re-stir before use.

3. Application Method:

- Use a notched trowel to spread the adhesive evenly on the substrate.
- Comb the adhesive in one direction only to ensure uniform bed thickness.
- Press tiles firmly into the adhesive, ensuring proper bonding within the open time of 30 minutes.
- For large-format tiles or heavy stone, back-buttering may be necessary for full adhesion.
- Adjust tiles within the adjustability time of 30 minutes.

4. Grouting:

- Allow 24 hours of curing time before grouting. Ensure proper joint width for movement accommodation.

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5.DO'S & DON'TS

• DO'S

- Substrate must be sound, clean, dry, and properly cured
- Do mix the adhesive strictly as per the recommended ≤ 200 Tds water ratio, using clean potable water.
- Do fix stone/ tiles within the open time of the adhesive to achieve proper bonding.
- Do allow adequate curing time before grouting or allowing foot traffic.
- Do clean tools and excess adhesive immediately with clean water before the material hardens.
- Application conditions must comply with recommended temperature and site conditions.

• DON'TS

- Not suitable for application on non-cementitious substrates.
- Do not use on uneven or weak substrates; level and repair the surface before application.
- Do not mix with excess water or add cement, sand, lime, or any other additives to the adhesive.
- Do not apply on wet, damp, or uncured surfaces.
- Do not apply adhesive beyond its open time; discard material that has started to skin or dry.
- Do not allow foot traffic or grouting before the recommended curing time.
- Do not store opened bags for extended periods; use opened material immediately.

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6.Storage and Handling:

• Storage:

Store in a cool, dry place (under 25°C) away from moisture. Keep the packaging sealed when not in use.

• Handling:

Wear protective gloves and goggles while handling the product. In case of skin or eye contact, rinse thoroughly with clean water. If inhaled, move to fresh air and seek medical attention if necessary.

• Health and Safety:

Refer to the product's Safety Data Sheet (SDS) for detailed information on safe handling practices, disposal, and health precautions. Follow local regulations regarding product handling and disposal.

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